

**DELHI PUBLIC SCHOOL
BOKARO STEEL CITY**

ASSIGNMENT FOR THE SESSION 2013-2014

Class: VII

Subject : English

Assignment No. 3

Section A (Reading)

A. Read the passage carefully and answer the questions :

Designing sustainable buildings in a composite climate is a challenge. The techniques that are effective during summers do not work in winters. But a building in Chandigarh has achieved this. More than ten years ago, the Punjab Energy Development Agency (PEDA) decided to construct an office building that utilizes the movement of the sun for lighting, cooling and heating.

The Rs.5.5 crore building, a pilot, was ready in 2004. Six years later, the Bureau of Energy Efficiency (BEE) awarded it a five-star rating, the highest grade of energy efficiency. With a built-up area of 6,146 sq.m., the building incorporates the techniques of passive solar architecture that is based on seasonal and diurnal variations in the sun's movement. Monuments like the Red Fort in Delhi were designed using these techniques. The PEDA office has an Energy Performance Index (EPI) of 14 KWh / sq.m./ year in the category of non-air-conditioned buildings. EPI is the ratio of the total energy used to the total built-up area. The EPI of commercial buildings is above 180 KWh/sq.m./year and the benchmark set by BEE for buildings' compliance with the union power ministry's energy conservation building Code (2007) is 140 KWh/sqm./year. By following passive solar techniques, the PEDA office has become one of the most energy-efficient buildings without adhering to the code, which came later, says Harsimran Singh, an architect in Chandigarh. According to the PEDA building's architect, Arvind Drishan unlike conventional buildings the office design is in accordance with the external envelope, which he calls solar envelope. This envelope refers to the features and materials used in the building's skin that makes it responsive to varying weather conditions. The internal structure has floating slabs which help in air circulation. The building is oriented in the north-south direction, minimizing solar exposure on the western and eastern facades. Although a building's southern facade can be shaded, the western façade remains exposed to the setting sun and cannot be shaded, he explains.

A.1.1. Answer the following questions based on the passage:-

- a. Why is designing sustainable buildings in composite climate a challenge?
- b. What do BEE and EPI stand for?
- c. How has the PEDA building overcome this challenge?
- d. Describe the PEDA building in your words?
- e. What is Arvind Drishan's opinion about the building?
- f. Which word in the passage means the same as: include
- g. Which word in the passage is the opposite of : increasing

Section – B (Writing)

- B.1. Prepare a speech meant to be delivered in the morning assembly on the importance of maintaining healthy habits in our daily life.
- B.2. Prepare a colourful advertisement of a wrist watch.
- B.3. Write a story of your own with a suitable title, that starts like this:
It was the first day of the vacation...

Section – C (Grammar)

C.1. Rearrange the following words and phrases to form sentences:

- a. tropical climate/ benefits / has/ lots of/ the
- b. conditions / have/the warm / healing touch / a/ everyone / for
- c. herbs, / a host of / flowers and fruits / remedy / have a / ailments / for all

C.2. Edit the following passage by writing the errors and corrections:

	Error	Correction
The Maha Kumbh 2013 is a rare sangam	e.g. <u>is</u>	<u>was</u> .
of technology or tradition with Google map	a) _____	_____
integration, GPS or 'lying camera.'	b) _____	_____
The state government for Uttar Pradesh	c) _____	_____
spend about Rs. 1.17 crore on 13 gigantic	d) _____	_____
LED screens round the premises, of which	e) _____	_____
some was fixed and some were on moving trucks.	f) _____	_____

Section – D (Literature)

- D.1. Did Grandma's family worry about her passion for tree climbing? What was their worry?
- D.2. Do you think the snail would like to join the dance but is unable to go that far? Why?
- D.3. Do you think a genius is someone with an exceptional ability or quality? Justify with reference to the lesson – Grandma Climbs a Tree.

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